

Constant Temperature Ovens

Yamato

Forced Convection

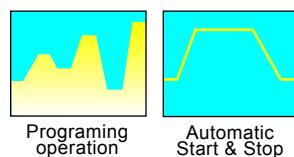
Model DNE400/410/600/610/8140/910

Model			
400	600	810	910
410	610		

Operating Temperature Range			
Room temp.+5°C~210°C			

Temp. Distribution Accuracy			
±2.0°C(at210°C)			

Internal Capacity			
90ℓ	150ℓ	300ℓ	540ℓ



Interior



DNE610



DNE910

Equipped with a simple key input system and a multi-functional controller. The DNE series represents forced convection constant temperature oven. They are equipped with model type 4 controller, and can be operated by an interactive key input, and the operation status can be grasped by graphic monitor.

- 16-segment programming is possible.
- Safety functions including self-diagnostic function are enriched.
- Functions are expanded with a wind-velocity changing device, an external communication device, a temperature output terminal etc.
- Possible to place the models 400/410 and 600/610 in piles, one over the other.



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Specifications

Model	DNE400	DNE410	DNE600	DNE610	DNE810	DNE910
Performance						
Circulation method	Forced air circulation					
Operating temperature range	Room temp.+5~210°C					
Temp. control accuracy	±0.5°C(at 210°C)					
Temp. distribution accuracy	±2.0°C(at 210°C)					
Max. temp. reaching time	Approx. 60 min.				Approx. 45 min.	Approx. 60 min.
Components						
Interior material	Type 304 Stainless steel					
Exterior material	Electro-galvanized steel plate with baked-on epoxy and melamine resin finish					
Heat insulating material	Glass wool					
Heater	Stainless pipe heater					
	1.1 kW	1.34 kW			1.2 kW × 2	1.5 kW × 2
Fan type	Scirocco fan, Condenser type					
Motor	10 W	10 W			30 W	30 W × 2
Inlet/Exhaust port	30 mm I.D. × 2 pcs.(the top)				30 mm I.D. × 2 pcs.(the back)	
Cable hole	30 mm I.D. (the right side)					
Controller						
Temp. controller	PID control by microprocessor					
Temp. setting method	Digital setting with ▲▼ key					
Temp display method	Digital display by orange LED					
Timer	1 min.~99 Hrs. 59 min.					
Min. division	1 min.					
Operation function	Fixed temperature operation, Program operation, Auto start, Auto-stop,					
Program mode	Program operation : Max. 32 steps, Repeat operation					
Additional functions	Timer, Integration time function (max. 49999 Hrs.), Calibration offset function, Time display					
Heater circuit control	Triac zero-cross control					
Sensor	K-thermocouple					
Safe Device						
Safety countermeasures	Self diagnosis functions (temp. sensor abnormal, Heater disconnection, SSR- short, Main relay broke down Automatic overheating prevention), Key lock function, Overheat prevention, Electric leakage breaker with over current protection					
Standard						
Internal dimensions (W×D×Hmm)	450×450×450	600×500×500			600×500×1,000	1,090×500×1,000
External dimensions(W×D×Hmm)	580×646×860	730×696×910			730×696×1,675	1,220×696×1,675
Internal capacity	90 liters	150 liters			300 liters	540 liters
Shelf plate with standard load	Approx. 15kg/piece					
Shelf rest step number	11 steps	13 steps			29 steps	
Shelf rest pitch	30 mm					
Power source 50/60Hz	100V single phase, 12A	200/230V single phase, 6.0A/5.3A	100V single phase, 14.5A	200V/230V single phase, 7.5A/6.6A	200V/230V single phase, 13A/11.4A	200V/230V single phase, 16A/14A
weight	Approx. 60 kg		Approx. 76 kg		Approx. 112 kg	Approx. 178 kg
Accessories						
Shelf plate	Stainless steel, 2 pcs.				Stainless steel, 4 pcs.	Stainless steel, 8 pcs.
Shelf bracket	4 pcs.				8 pcs.	16 pcs.
Optional Accessories						
Stand / Additional shelf plate / Cable hole(25/50mm) / Observation window / External communication terminal(RS485) / Temp. output terminal (4~20mA) / Time up out-put terminal / Out-put terminal for alarm device etc.						



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